

Date 16/12/2016

DQAC Activity Biochemistry

A talk on “Radiotherapy induced osteoporosis: Stem cell fate regulation and path to sustained therapeutics” was delivered by **Dr Abhishek Chandra**, MAYO Clinic Rochester, on 16/12/2016 at 11.00 AM in the School of Biochemistry under DQAC activity. Dr D. Bhatnagar, Retd Professor of Biochemistry, introduced the speaker. All the students, research scholars and faculty members of the department attended the lecture.

Head



A talk on “**Cellular Senescence and its role in aging and disease**” was delivered by **Dr Abhishek Chandra, Mayo Clinic School of Medicine, Mayo Clinic, Rochester, Minnesota, USA** on 16/5/2018 at 10.30 AM in the School of Biochemistry under DQAC activity. All the students, research scholars and faculty members of the department attended the lecture.



GIAN- Global Initiative of Academic Network

How Next Generation Sequencing (NGS) is Untying the Knots in Viral Pathogenesis

Program Schedule: October 23rd - October 30th, 2017

October 23rd, 2017

Inauguration session- School Building (SB) 309; 10:00 -10:30 am

High Tea- Outside area of School Building (SB) 309; 10:30-11:00 am

Lecture 1- School Building (SB) 309; 11:00 am-12:00 pm: Subhash C Verma (SCV):-
What is virus, Virus classification.

Lecture 2- SB 309; 12:00-1:00 pm (SCV):- Life cycle of viruses, various phases in virus life cycle and their importance.

Lunch- Ground floor School Building; 1:00-2:00 pm.

Tutorial 1- SB 309; 2:00-3:00 pm: Hem Chandra Jha (HCJ):- Evolution of viruses, how virus evolution is different than other primitive micro-organism.

October 24th, 2017

Lecture 3- SB 309; 10:00-11:00 am (SCV):- Host targeted by viruses, why virus specifically infected several species not others?

Lecture 4- SB 309; 11:00 am-12:00 pm (SCV):- Virus driven diseases; Classification of viral diseases based on bio-safety levels

Lunch- Ground floor School Building: 12:00-1:00 pm

Tutorial 2- SB 309; 1:00-2:15 pm (HCJ):- How viruses survive during adverse era on earth?

October 25th, 2017

Lecture 5- SB 309; 10:00-11:00 am (SCV):- About DNA viruses; types of virus, structure of virus, specific characteristics of virus.

Lecture 6- SB 309; 11:00 am- 12:00 pm (SCV):- About RNA viruses; types of virus, structure of virus, specific characteristics of virus.

Lunch- Ground floor School Building: 12:00-1:00 pm



SCHOOL OF BIOCHEMISTRY

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Advances in Biochemical Research

One day Seminar

Organized by

School of Biochemistry, DAVV, Indore

29th October, 2018

Report

School of Biochemistry organised a Seminar on "Advances in Biochemical Research" on 29th October 2018. The invited scientists were as follows :

Dr. Damodar Gupta, Scientist E, Department of Capacity Enhancement and Product Induction (CEPIN) Institute of Nuclear Medicine and Allied Sciences, Delhi,

Dr Ravindra Makade, Principal Scientist, RRCAT, Indore and

Dr Sai Prasad, Head, ICAR-IARI Regional Station, Indore.

Dr Gupta delivered a lecture on radiation protection and toll like receptors in mitochondrial functionality for mannan mediated protection, Dr Ravindra makde highlighted on protein crystallography and X-ray diffraction technique. He also mentioned about pyroglutamate recognition and crystal structure of non specific acid phosphatases. Dr Sai Prasad talked on high value wheat production under climate change situations. The Seminar was inaugurated by Hon Vice Chancellor, Dr. N.K. Dhakad. Welcome address was presented by Prof and Head, School of Biochemistry, DAVV, Indore and the programme was conducted by Dr Meeta Jain. Various faculty members, Dr K. Hajela, Dean, faculty of Life Sciences, Dr Rajesh Sharma, Head, School of Pharmacy, Dr Anand Kar and Dr. S.M Gokhale attended the Seminar. Fourty five students, PG and Research, participated in it.

Rekha Gadre

Professor and Head

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Date 30/1/2017

DQAC Activity Report

School of Life Sciences, Biochemistry and Pharmacy jointly organized a National Seminar on Basic and Applied Immunology: An Industrial Perspective on 27th and 28th January 2017. The seminar was inaugurated by Prof. Shailendra Saraf, Vice President, Pharmacy Council of India, New Delhi. Prof. Saraf appreciated the joint efforts of DAVV departments for encouraging the research and highlighted the importance of Industry based research in present scenario as well as for the future. During the technical session, Shri Ashish Sahai, Deputy Director, Serum Institute of India, Pune discussed about the latest advanced technique used for large scale production of Rabies, Measles, Mumps and Rubella vaccines. Dr. Naresh Laddha from Unipath Specialty Lab Ltd., Ahmedabad talked about the significance of molecular diagnostics for determining the causes of genetic disorders and serious diseases.

In the technical session of 2nd day, Dr. Debasis Nayak, Deptt. BSBE, IIT Indore presented information about the LCM Virus which affects the Central Nervous System. He discussed the role of Type I Interferon Signaling Pathway. Dr. Himanshu Kumar from IISER, Bhopal delivered a very informative talk on the use of micro RNA to control influenza and other viral diseases. In the last session of seminar, Dr. Prashant Kodgire, Scientist, IIT Indore discussed about the involvement of Activation Induced Cytidine Deaminase (AID) in maintaining and enhancing the immune power of the body against Cancer and other ailments.

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30/1/2017

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30/1/2017

Chairperson

School of Biochemistry

Dr. Prashant Kodgire
DQAC Coordinator
School of Biochemistry



Date 13/10/2017

Affiliation Letter


This is to state the students listed below are regular students of M. Sc. Semester I in School of Biochemistry, DAVV, Indore. They have registered themselves for participation in GIAN at IIT, Indore to be held from 23/10/2017-29/10/2017.

1. Ankita Bele
2. Anushka Pandey
3. Apoorva Rawal
4. Himanshi Jain
5. Julie Meena
6. Lokendra Borna
7. Manisha Singh
8. Nandita Singh
9. Pooja Yadav
10. Priya Sawner
11. Priyanka Kumawat
12. Ranu Warkade
13. S. Priyanka
14. Sailesh Mahadule
15. Simran Tolani
16. Sonu Barfa
17. Swati Kushwah
18. Arpan Debnath
19. Janhavi Gawande
20. Jharna Maiti
21. Kajal Sharma
22. Kavita Sahu
23. Namrita Ganguly
24. Nikhil Agrawal
25. Priya Patidar
26. Sakshi Dwivedi
27. Tilotma Sinha
28. Tileshwar Sahare

Rekha Gadre
Prof and Head
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DEVI AHILYA VISHWAVIDYALAYA, INDORE



Advances in Biochemical Research
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EFFECTS OF HIGH TEMPERATURE ON WHEAT

Yield - It showed detrimental effect on reproductive development such as flower initiation, anther and pollen development, flower average fertilization and subsequently yield loss has been reduced sink potential (Ratnala, et al, 2008)

Quality - It increases the sedimentation values, soluble and insoluble proteins, and microarray peak height. In contrast, flour yield, mixing time and mixing tolerance of dough were significantly decreased, may be due to rapid deterioration during ripening (Johnson et al, 1978; Tahir et al, 2006). It is widely reported that the grain protein content increased significantly due to postanthesis exposure to heat stress, whereas, a reduction in the glutenin:gliadin ratio takes place, which has a negative effect on flour quality (Chahal, 2014)

Photosynthesis - Heat stress along with elevated CO₂ showed negative effect on photosynthesis efficiency. Deterioration of rubisco, a key enzyme in photosynthesis is one of the deleterious effects of heat stress in plants which occurs due to lower transpiration rate caused by stomatal closing under various stresses.

Oxidative stress - Generation of reactive oxygen species in wheat is one of the major consequences of heat stress in plant, in wheat seedling exposed to heat stress, diminished activity of catalase and increased activity of ascorbate oxidase, peroxidase, superoxide peroxidase and proteases were observed during heat induced programmed cell death. (Hameed et al, 2012)

Transpiration - High transpiration rate (especially at night) can increase relative humidity, reduce CO₂, leading to cell damage and affecting pollen viability.

A male presenter with glasses and a checkered shirt is standing at a podium, gesturing towards the projection screen. He is holding a thin stick or pointer.

The back of several audience members' heads and shoulders are visible in the foreground. They are seated in blue chairs, facing the presenter and the screen. One man on the right is holding a mobile phone to his ear.

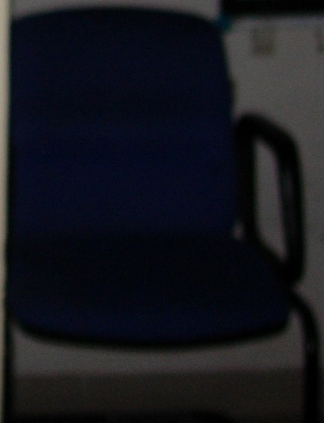


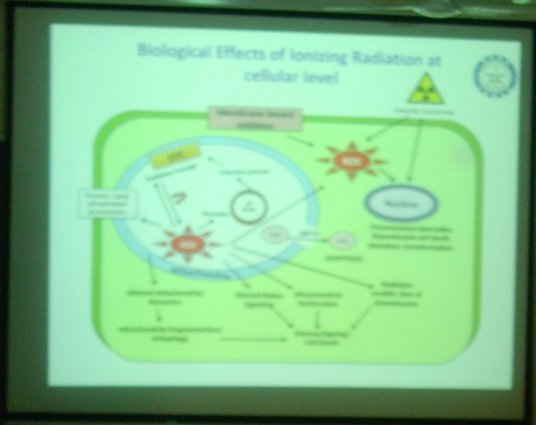
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Advances in Biochemical Research
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A male presenter in a white shirt and dark trousers stands to the left of the projection screen, gesturing towards the diagram.



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Proteomics
1455000

MOLECULAR BIOCHEMISTRY: A Year at the Protein Data Bank



Functions of proteins

- Enzymes
- Structural
- Transport
- Motor
- Storage
- Signaling
- Receptors
- Gene regulation
- Special functions

A man in a white shirt and glasses stands at a podium, holding a bouquet of flowers. He is facing the audience and the projection screen.

